EXHIBIT H

IN		FATES DISTRICT COURT FRICT OF DELAWARE	
SRI INTERNA	TIONAL,	o	
INC., a Cal	_	0	
Corporation		۰	
	• •	0	
Plaintiff a	ind	•	
Counterclai	.m-Defendant	٠	
		o	
		•	
v.		° C.A. No. 04-1199 (SLE	>)
v ,		• C.A. NO. 04 1199 (BHI	C)
INTERNET SE	'CTTP T'TV	٥	
SYSTEMS, IN		0	
Delaware Co		o	
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SYSTEMS, IN		0	
Georgia Cor		0	
and SYMANTE			
	, a Delaware	•	
Corporation	• 1	•	
	and m-Plaintiffs	•	
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	VIDEOTAPED O	AL DEPOSITION OF	
	DANII	EL M. TEAL	
	May	24, 2006	
ò			ò
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		Page 24
1	I do know that they received some funding from the	J
2	U.S. Government for their research.	
3	Q. Does the U.S. Government fund work on	
4	research that's directed to problems that have	
5	already been solved?	08:32:48
6	A. I cannot comment on if the	
7	U.S. Government is funding problems that have	
8	already been solved.	
9	Q. Does that seem reasonable to you?	
10	MS. BROWN: Objection, calls for	08:32:58
11	speculation.	
12	A. Again, it all depends upon how you define	
13	if the problem is solved or not. Again, I do not	
14	know if the government is funding problems that have	
15	already been solved. It also depends: Has the	08:33:14
16	problem been solved? I'm not aware. If you could	
17	point out a specific problem that I could answer	
18	I mean, that's a very vague question.	
19	Q. (BY MR. MILLER) You say that NetRanger	
20	solved the problems that EMERALD purportedly solved,	08:33:29
21	but did it several years earlier. Isn't that your	:
22	opinion?	
23	MS. BROWN: Objection, vague.	
24	A. I produced we sold NetRanger several	
25	years prior to publication of the EMERALD paper as	08:33:48

Page 25 it was a successful product. The U.S. government, 1 it was whether they funded EMERALD, if they thought 2 3 NetRanger may have solved it, that was up to them. 4 (BY MR. MILLER) So you think the 5 government funded EMERALD work to the tune of 08:34:08 6 millions of dollars when they could have gone out 7 and bought a commercial NetRanger product. 8 makes sense to you? 9 MS. BROWN: Objection, vague, calls 10 for speculation. Also, lacks foundation, vaque as 08:34:21 11 to what you mean by "the EMERALD project." 12 (BY MR. MILLER) Do you understand the question? 13 14 Α. I would like to point out that the U.S. Government did purchase NetRanger systems. You 15 16 know, if they continued funding the EMERALD project, 17 that may have been another part of the U.S. Government. 18 19 Q. Okay. Let's try to answer my question. 20 Does it make sense to you that the government would 08:34:45 21 have funded EMERALD research if your commercial 22 NetRanger product already solved the problems that 23 the EMERALD research was directed to? 24 MS. BROWN: Objection, vaque as to 25 "EMERALD research." 08:34:59

		Page 26
1	A. Let me point out, NetRanger was a	1 490 40
2	successful commercial product. The U.S. Government	
3	purchased it. They may have funded EMERALD for	
4	continued research for doing things in a different	
5	way, maybe, that	08:35:17
6	Going ahead and dealing with, for	
7	example, statistical detection, which in 1997 was	
8	not viable for commercial systems.	
9	Q. (BY MR. MILLER) Statistical anomaly	
10	detection was not viable for commercial systems;	08:35:43
11	that's your opinion?	
12	A. In my opinion, in 1997, I was not aware	
13	of any statistical anomaly detection system that	
14	would have worked in a commercial setting.	
15	Q. Before becoming involved in this lawsuit,	08:36:06
16	had you ever heard anyone say that SRI's work in the	
17	intrusion detection field was not of high quality?	
18	A. That depends upon the definition of "high	
19	quality." Are you talking about high quality for a	
20	research project, or high quality for a	08:36:27
21	commercial-grade product that could be sold on the	
22	open market?	
23	Q. Let's start with commercial I'm sorry.	
24	Let's start with research project.	
25	A. I am aware that SRI produced, you know,	08:36:41

Page 27 1 for the IDES project and the NIDES project research 2 systems that were used in limited research settings. 3 They probably tested it at one site. Other than that, I cannot comment on -- you know, they may not 4 5 have tested it at all. I do not know if they tested 08:37:05 6 it at one or more sites. 7 I never used the IDES system. 8 never used the NIDES system. I never used the 9 EMERALD system. They presented lots of papers at 10 computer security conferences on the research that 08:37:23 11 they performed. 12 Did you ever hear anybody criticize or 13 speak negatively of SRI's work in the intrusion detection field? 14 15 MS. BROWN: Objection, calls for 08:37:33 16 speculation. 17 Α. I have never heard individuals in the computer security field comment negatively on the 18 19 IDES or any other research project, to my 20 recollection. They were research projects. Ιt 08:37:56 21 depends upon comment negatively -- I never heard 22 anyone say that, "Oh, this cannot be used for a 23 commercial system, " although that was my opinion. 24 But I never heard anyone say that at a conference. 25 (BY MR. MILLER) Did you ever hear anyone 08:38:14 Q.

Page 28 1 say anything negative about SRI's research in the intrusion detection field? 2 3 I can't remember anyone saying anything 4 negative about SRI's research. 5 Q. Do you recall ever hearing anyone say 08:38:30 6 that SRI was taking credit for work that was not done by SRI? 7 8 I could not comment on that. I don't 9 remember anyone saying, you know, that SRI's taking 10 credit for other people's work at those research 08:38:50 conferences. 11 12 Why did you keep the IDES, NIDES and 13 EMERALD articles in your files? 14 I keep lots of files just because I am --Α. 15 I do work in the computer security field, and I keep 08:39:18 16 files just to have them. 17 You keep files on useless work? Ο. 18 Α. I keep files -- well, that depends upon 19 if I believe -- in terms of useless work, I may have 20 stuff, but it depends upon -- in which case it was 08:39:35 21 presented at a research conference, I kept copies of it. I have proceedings from lots of technical 22 23 conferences. So I just have a habit of keeping all 24 the papers, or as many papers as I can keep, from 25 technical conferences or, you know, research 08:39:57

1	projects that were presented at the conferences.	Page 29
2	Q. In your invoice, you note that you spent	
3	five hours preparing documents to produce in	
4	response to SRI's subpoena to you.	
5	A. Yes, I spent approximately five hours	08:40:17
6	searching through everything.	
7	Q. So what did you do in the five hours?	
8	A. In the five hours, I spent at least an	
9	hour going through all of the conference proceedings	
10	that I've had. May have been more time than that.	08:40:35
11	I also spent time researching you know, getting	
12	all of the files for WheelGroup Corporation and	
13	NetRanger that were also requested by the subpoena.	
14	That took probably more time than going through all	
15	of my files looking for papers regarding SRI.	08:40:59
16	Q. Were there any papers relating to	
17	WheelGroup or NetRanger that you didn't produce?	
18	A. I produced all of the files that were	
19	requested, everything except source code to	
20	NetRanger.	08:41:20
21	Q. You have the source code for NetRanger?	
22	A. I have some source code for NetRanger.	
23	Q. Which source for which version of	
24	NetRanger do you have source code?	
25	A. I have source code for Version 1.0; some	08:41:36

Page 30 internal research versions for the time frame 1 between 1.0 and 2.0, not complete, but some of the 2 I have source code for some of the 3 versions -- you know, for, basically, 2.0; 4 basically, test stuff. I did not maintain the 08:42:01 5 complete set of source code, for example, for 1.3 or 6 7 2.0. I noticed in some of your documents 8 9 actually attached to your report that WheelGroup did 10 consulting for its customers. Is that correct? 08:42:23 11 Yes, WheelGroup did do consulting for 12 some of our customers. 13 Ο. Do you have any documents relating to 14 that consulting work in your files? I believe I produced a number of 15 Α. 08:42:36 documents in regards to the subpoena for that 16 consulting work. I don't remember exactly which 17 18 I was just finding files and copying them Those files were produced a long time ago. I 19 did not read them in response to providing them for 20 08:42:56 the subpoena. 21 They were produced, meaning they were 22 Ο. 23 created a long time ago? 24 They were created when WheelGroup -- over 08:43:10 25 10 years ago.

Page 31 1 Q. When you were reviewing the documents for production, do you recall any documents that 2 reflected or depicted a customer's network 3 architecture? I don't specifically recall. There may 08:43:31 5 Α. have been. 6 7 If there was such a document in your Ο. files --8 9 Α. If there was -- there may have been a 10 document. There may not have. I do not know if 08:43:40 11 there was a document that depicted a customer's architecture. 12 13 Ο. If there was such a document, you would have produced it? 14 If there was a document with a customer's 08:43:49 15 Α. 16 network architecture, I would have produced it. 17 You mentioned previously that there may Q. 18 have been some testing of IDES and NIDES. Are you aware of any testing of the EMERALD system, any of 19 20 the EMERALD systems? 08:44:11 21 Α. I am not aware of any testing of the 22 EMERALD systems. I read those papers a long time 23 ago. They may have referred to it. They may not. I do not remember. 24 25 You looked for a paper regarding Lincoln 08:44:32 0.

		Page 60
1	question is yes?	
2	MS. BROWN: Objection, asked and	
3	answered.	
4	A. Yes, you could provide, an API allows	
5	you you could do that.	09:23:22
6	Q. (BY MR. MILLER) You could transform from	
7	one form	
8	A. Yeah. Yeah. It depends upon a	
9	definition of what you're trying to do with the	
10	transforming more at the technical level, but	09:23:31
11	Q. So just let me ask the question more	
12	cleanly and you can answer it: Can an API allow the	
13	system to transform data from one form into another	
14	form?	
15	MS. BROWN: Objection, vague as to	09:23:43
16	whether you're speaking generally or in the context	
17	of the patents.	
18	A. The answer is yes. And based on that	
19	definition, my NetRanger system did that.	
20	MR. MILLER: Let's take a break.	09:23:56
21	THE VIDEOGRAPHER: We're off the	
22	record at 9:23 a.m. This is the end of Tape No. 1.	
23	(Recess taken at 9:23 a.m.)	
24	THE VIDEOGRAPHER: Stand by, please.	
25	We're back on the record at 9:34 a.m. This is the	09:34:42

Page 61 1 beginning of Tape No. 2. 2 Ο. (BY MR. MILLER) Back in September, 3 approximately September of last year when you first skimmed the patents-in-suit, what were your 4 5 impressions? 09:34:55 . 6 Α. My impressions? My initial impression is 7 that the patent -- you know, based on the face of 8 it, that I'd already done lot of that with 9 NetRanger. A lot, maybe all of it. I don't 10 remember. I mean, in which case I had my NetRanger 09:35:14 11 system out there, and I saw this was filed long 12 after we were selling NetRanger on the market. Is there anything described by the 13 Q. 14 patents-in-suit that you don't believe you invented? 15 MS. BROWN: Objection, calls for a 09:35:28 16 legal conclusion. Are you speaking of claims or the 17 description? It's vaque. Are you going to place the patent in front of the witness? 18 19 Α. The -- I don't remember my thoughts at 20 What I do remember in the patent is the 09:35:44 21 patents, one of them, did cover signature detection, 22 misuse detection, okay, which is what NetRanger did; 23 did it very well. 24 The patents also address statistical 25 anomaly detection, which NetRanger did not do and 09:35:58

		Page 62
1	did not do for commercial reasons because in my	
2	opinion, and it's still my opinion today, that	
3	statistical analysis is more for research-type	
4	products rather than a commercial product.	
5	Q. (BY MR. MILLER) Are you familiar with	09:36:14
6	Symantec's products?	
7	A. I am not familiar with Symantec's	
8	intrusion detection products. I did not look at	
9	them in regards to this case.	
10	Q. Were you asked to take a look at	09:36:24
11	Symantec's intrusion detection products?	
12	A. I was not asked to take a look at	
13	Symantec's intrusion detection products.	
14	Q. Do you know whether Symantec's intrusion	
15	detections include any statistical anomaly	09:36:36
16	detection?	
17	A. I do	
18	MS. BROWN: Objection, calls for	
19	speculation.	
20	A. I do not know if they include it or not.	09:36:42
21	Q. (BY MR. MILLER) Do you know whether ISS'	
22	products include statistical anomaly detection?	
23	A. I	
24	MS. BROWN: Objection, calls for	
25	speculation.	09:36:54

Page 63 1 Mr. Teal, you have to just pause and 2 let me get my objections on the record, please. 3 Okav. THE WITNESS: Okay. 5 Α. No, I do not know if they include 09:36:58 6 statistical detection or not. It also depends upon 7 what you define as "statistical detection." 8 example, some misuse detection might be construed as 9 statistical detection. "Statistical detection" over the 09:37:11 10 11 years has seemed to have had many different 12 meanings, and it's a very broad term, and it appears to -- it can mean many different things. 13 14 0. (BY MR. MILLER) In the context of the 15 '212 patent, what do you believe it means? If you'd 09:37:22 take a look at Exhibit E to your report. 16 17 Α. For the '212 patent -- for which part of 18 Exhibit E? 19 Ο. Take a look at page 57 of Exhibit E to 20 your report. Are you there? 09:37:57 21 Α. Yes. I see page 57. 22 Okay. And you understand that page 57 is 23 addressing claim 1 of SRI's '212 patent? 24 Α. At page 57, it says, "See '203, claim 1." 25 Okay. Do you understand that page 57 is Q. 09:38:29

		Page 64
1	addressing claim 1 of the '212 patent, or not?	
2	A. I don't understand your question because	
3	I'm looking at page 57 and on there, in my expert	
4	report, I say, "See '203, claim 1."	
5	Q. Did you prepare this claim chart,	09:38:49
6	Exhibit E?	
7	A. The draft of this claim chart was	
8	produced by my legal counsel, upon discussions with	
9	myself, and I reviewed it claim-by-claim with the	
10	legal counsel.	09:39:01
11	Q. Do you recognize any claim of the '212	
12	patent on page 57?	
13	MS. BROWN: Objection, vague as to	
14	"recognize." Are you going to place the '212 patent	
15	in front of him, Counsel? Are you asking him to	09:39:13
16	make a comparison?	
17	A. There, for the '212 claim number, going	
18	through, after reviewing the claim in '212, I	
19	reference and said we've already covered this in	
20	'203, claim 1.	09:39:38
21	Q. (BY MR. MILLER) Okay. Do you recognize	
22	claim 1 of the '212 patent on page 57?	
23	MS. BROWN: Objection, vague as to	
24	"recognize."	
25	A. On the '212, the only difference is where	09:39:50

			Page 66
1	A	Yes.	
2	Q. i	And you say that a statistical detection	
3	method could	d be any of the three proposed	
4	construction	ns?	
5	Α.	That is correct.	09:41:21
6	Q. :	In your in reaching your conclusions	
7	as to whether	er or not that limitation, "Wherein at	
8	least one of	f the network monitors uses a statistical	
9	detection me	ethod" in analyzing whether or not	
10	that limitat	tion was present in the prior art, did	09:41:38
11	you use one	of these three constructions, your own	
12	construction	n, or something else?	
13		MS. BROWN: Objection, asked and	
14	answered.		
15	A. :	I used all three constructions for my	09:41:51
16	answer.		
17	Q.	(BY MR. MILLER) Earlier today you	
18	mentioned th	nat you're a named inventor on a number	
19	of patents?		
20	Α.	Yes.	09:42:10
21	Q. 1	Do you know how many?	
22	A. 1	Five patents, to my knowledge.	
23	Q	These are all patents that are assigned	
24	to Cisco?		
25	Α	That is correct. Cisco does is the	09:42:21

1	assignee for those five patents.	Page 67
2	Q. Were any of the five patents on which	
3	you're listed as a named inventor filed before the	
4	SRI patents-in-suit?	
5	MS. BROWN: Objection, calls for	09:42:37
6	speculation.	
7	A. I do not know the dates of when they were	
8	filed and if it was before or after the SRI patents.	
9	Q. (BY MR. MILLER) When were the SRI	
10	patents-in-suit filed?	09:42:46
11	MS. BROWN: Objection, calls for	
12	speculation. You haven't placed the patents in	
13	front of him.	
14	A. I don't remember the exact dates that the	
15	SRI patents were filed.	09:42:55
16	(Exhibit 463 marked/introduced.)	
17	Q. (BY MR. MILLER) Mr. Teal, the reporter	
18	has placed before you Exhibit 463, which is	
19	identified as TEA_17 through 34. It's U.S. Patent	
20	630,668. Do you recognize this document?	09:43:28
21	A. Yes, that is one of my patents.	
22	Q. And your name is there on the front,	
23	Daniel M. Teal?	
24	A. That is me, yes.	
25	Q. Why didn't you tell the Patent Office	09:43:40

		Page 68
1	about any of SRI's work in intrusion detection?	
2	A. For the	
3	MS. BROWN: Objection, lacks	
4	foundation.	
5	Q. (BY MR. MILLER) Okay. Did you tell the	09:43:53
6	Patent Office about any of SRI's work in intrusion	
7	detection during the prosecution of this patent?	
8	A. I do not I do not know, because I did	
9	not contact the Patent Office. I was working with	
10	Cisco Systems' law firm. I do not remember their	09:44:06
11	name. This was a number of years ago. They may	
12	have provided it, they may have not. I gave a	
13	number of papers in support of the work for this	
14	patent. I do not remember the list of all the	
15	papers that I presented.	09:44:25
16	Q. Take a look at the first couple of pages	
17	of the patent.	
18	A. Okay.	
19	Q. So page 18, page 19, page 20, page 21	
20	I'm referring to the TEA numbers on there.	09:44:44
21	A. Oh, the TEA numbers. Okay.	
22	Q. Yeah. So it's like the first	
23	A. Okay.	
24	Q four pages of the patent.	
25	A. Uh-huh.	09:44:51

Page 69 1 Q. Actually, first five pages of the patent. You see a whole bunch of prior art 2 references identified there? 3 Α. Yes, I do. 4 5 0. Do you see any SRI documents identified 09:45:01 there? 6 7 Α. I would have to read through all the 8 listings. There's a number of them here. 9 there's some you'd like to point out to me --10 Ο. I can't. I'll represent to you I don't 09:45:12 11 see any SRI publications. (Witness reviewing document(s).) 12 13 So none there. And, more than likely, I Α. probably did not, you know, provide any of the SRI 14 15 papers because they deal with statistical detection, 09:45:34 which is not a commercially viable solution; and at 16 17 Cisco, we did not depend upon statistical detection. 18 So, therefore, in my opinion, the SRI documents were 19 irrelevant for my patents. The SRI research was not 09:45:55 20 (BY MR. MILLER) material to the NetRanger work or the Cisco 21 22 products? 23 Α. They told me what not to do. 24 Okay. Is it your testimony that the SRI 25 documents don't discuss statistical analysis at all? 09:46:04

		Page 70
1	I'm sorry. Withdrawn.	
2	Is it your testimony that the SRI	
3	documents don't discuss signature analysis at all?	
4	MS. BROWN: Objection, lacks	
5	foundation, vague as to which document you're	09:46:16
6	referring to.	
7	A. At the I do not remember at the time	
8	that I was providing information in support of this	
9	patent. And just for the record, I left Cisco soon	
10	after providing initial stuff, so I don't know, you	09:46:35
11	know, that whole process after I left.	
12	I was not aware I do not remember	
13	if there was SRI documents. I do not remember SRI	
14	having signature analysis in their work.	
15	Q. (BY MR. MILLER) Are you aware, as you	09:46:56
16	sit here today, whether, for example, the EMERALD	
17	'97 paper that you cite to in your report discusses	į
18	signature analysis?	
19	A. I do not remember the whole contents of	
20	that paper. It may have. It may have not.	09:47:09
21	Q. You had the EMERALD '97 paper back in	
22	before at least before December of 1998, right?	
23	MS. BROWN: Objection, calls for	
24	speculation.	}
25	A. I may have had a copy of it.	09:47:27

		Page 71
1	Q. (BY MR. MILLER) Why didn't you tell the	
2	Patent Office about NetRanger when you filed this	
3	application for this '668 patent?	
4	MS. BROWN: Objection, lacks	
5	foundation.	09:47:42
6	A. Again, I did not talk to the Patent	
7	Office, so I do not know if the law firm told the	
8	Patent Office about NetRanger or not. I can't	
9	provide an answer on that.	
10	Q. (BY MR. MILLER) Do you know whether the	09:47:57
11	Patent Office told the withdrawn.	
12	Do you know whether the law firm	
13	told the Patent Office about the SPOCK paper that	
14	you reference in your report?	
15	A. I do not know if the law firm told the	09:48:07
16	Patent Office about our SPOCK paper.	
17	Q. What about the AFIWC assessment of	·
18	NetRanger that you reference in your report? Did	
19	the law firm tell the Patent Office about that?	
20	MS. BROWN: Objection, calls for	09:48:20
21	speculation.	
22	A. I do not know if the law firm provided	
23	that paper to the Patent Office.	
24	Q. (BY MR. MILLER) You think NetRanger,	
25	SPOCK or AFIWC would be relevant to the	09:48:31

Page 99 wasn't confidential. Is that correct? 1 MS. BROWN: Objection, calls for 2 speculation. 3 I do not remember if I said it was 4 confidential at that time or not, you know, in which 10:19:55 5 case I remembered a DoD SPOCK report. I do not 6 remember exactly when I provided, for example, the 7 press release concerning the DoD SPOCK report. I 8 9 had to go through and find a copy of that. I don't 10 remember the exact date that I obtained it from 10:20:15 11 Jerry Lathem. 12 Ο. (BY MR. MILLER) All I'm trying to find 13 out from you, sir, is about when you told the 14 Symantec lawyers that you didn't believe the DoD SPOCK report was --15 10:20:31 It was probably in the September time 16 frame. 17 I didn't get my whole question out, so I 18 need reask it, for the record. 19 10:20:37 20 Α. Okay. 21 So about when did you tell the Symantec 22 lawyers that you did not believe the DoD SPOCK report was confidential? 23 MS. BROWN: Objection, calls for 24 speculation, asked and answered. 10:20:48 25

Page 100 I do not remember exactly when I told 1 Α. Symantec's lawyers that I thought that it was 2 confidential [sic]. It may have been in September 3 when I was discussing with it, and I have it on my 4 hours right here. I don't remember the exact time. 10:21:01 5 (BY MR. MILLER) Did you mean to say "not 6 Ο. confidential"? 7 That makes it, yeah, not confidential, Α. 8 9 yes. 10 Under "September 21," who's the former 10:21:13 Q. NetSolve employee that you called? 11 The former NetSolve employee was an 12 Α. individual by the name of Bob Gallen. 13 14 Ο. G-O-W-E-N? 15 G-A -- no, Gallen, G-A-L -- how does he 10:21:38 spell his last name? G-A-L-L-E-N, I believe. 16 17 Ο. Thank you. Did you do any work on this case and 18 19 not bill for your time? I would agree, yes, to that answer. 20 10:21:55 How many hours did you work on the case 21 0. and not bill? 22 I do not know the exact number of hours I 23 24 did not bill. Again, I wasn't really doing this for 25 the money. I just wrote it down, what I remembered, 10:22:11

		Page 101
1	because I figured they'd probably like an invoice	
2	from me at some point.	
3	Q. Can't give me a ballpark?	
4	A. Could have been 10 hours. Could have	
5	been 20 hours. I do not know.	10:22:22
6	Q. Did you do any activities that aren't	
7	noted on your time sheet?	
8	MS. BROWN: Objection, vague as to	
9	"activities." Calls for speculation.	
10	A. Yeah. I mean, I don't remember doing	10:22:39
11	everything through here. The only individuals that	
12	I remember talking to were the ones that I had	
13	listed in my expert report or people you know,	
14	Bob Gallen at NetSolve, Todd Heberlein in April, I	
15	know, in going through and preparing the expert	10:23:09
16	report, answering questions and so on.	
17	Q. (BY MR. MILLER) Under "September 20,"	
18	you have, "Canned database queries used in	
19	NetRanger." What does that mean?	
20	A. Those were SQL scripts that were provided	10:23:39
21	to customers with NetRanger that they could use	
22	stand-alone or the customers could modify to query a	
23	SQL database for generating and you know, lists	
24	of events, trying to correlate, as the example that	
25	I gave previously of looking that I have an attack	10:24:00

Page 102 coming from a single source address, if I could 1 write the SQL query such that if I want to find the 2 number one source address that's attacking my 3 network among all my multiple sensors. 4 5 That way, we know SQL queries would 10:24:15 6 cover sequel queries based on space, which would be 7 IP addresses; time, when events occurred; and type. You know, the types of alarms, i.e., all ping 8 9 sweeps, port sweeps, that sort of thing. 10 Q. Okay. So the query is a question to the 10:24:28 11 system? 12 Α. Yes. 13 ο. Is that a fair characterization? 14 A. A query is you are -- not so much a 15 question. It is going through the information that 10:24:38 is in the system to produce a subset of data, and 16 that's sorted in a useful manner. 17 18 And then it generates a report? Q. 19 Α. It depends upon what you define by 20 "report." The output to SQL queries would be 10:24:56 21 outputted in -- could be in ASCII format. You could 22 then put it into a file that you could put onto a 23 piece of paper that could be construed as a report. You could take the output from the 24 SQL queries and feed that into shell scripts, if you 10:25:11 25

Page 103 wanted to do further customization. You could take 1 2 the output from the SQL queries and use that as feedback doing -- you know, additional -- as 3 feedback, if you wanted to do additional queries. 4 Using the NetRanger system, what could a 5 Ο. 10:25:23 user do with a SQL report? 6 7 MS. BROWN: Objection, calls for 8 speculation, vague. 9 Α. They could do just about anything that 10 they wanted to. The key thing, one of the things 10:25:37 11 that the customers liked about the NetRanger system is that we would produce all of the events that were 12 generated by the NSX sensors and you could put them 13 into an Oracle database, whether you had it go 14 directly -- the system was so configurable, I could 15 10:25:56 put them into an Oracle database directly from the 16 17 NSX sensor, I could do it directly from a first-tier 18 Director, I could do it directly from a second-tier It all depends upon how the customer 19 20 wanted to configure the system. 10:26:11 21 Once you generated all of these events, customers could then use them for historical 22 23 They could use them to query for just purposes. about anything that they wanted. I mean, that's the 24 25 power of the system. We generated events. 10:26:23 You

		Page 104
1	know, we had timestamps of when an event occurred,	
2	type of event	
3	Q. (BY MR. MILLER) We've gone down that	
4	list.	
5	A. Okay.	10:26:29
6	Q. A human operator would look at the	
7	output.	
8	MS. BROWN: Objection, vague as to	
9	"output," calls for speculation.	
10	A. You could have a human operator look at	10:26:39
11	the output. It was not required. It depends upon	
12	how you ran the SQL queries.	
13	Q. (BY MR. MILLER) Are you aware of any	
14	deployment of NetRanger where a machine further	
15	processed the output of a query to perform automatic	10:26:53
16	correlation?	
17	A. To the best of my recollection, I believe	
18	that the IBM emergency response services and	
19	NetSolve in their business models had automated SQL	
20	queries running on the system to generate stuff.	10:27:19
21	Q. They had the queries automated. I'm	
22	talking about processing, further processing of the	
23	query to do correlation. Are you aware of any	
24	deployment where the queries were further processed	
25	automatically by a computer to perform correlation?	10:27:38

Page 105 1 MS. BROWN: Objection, vaque, incomplete hypothetical, calls for speculation. 2 From that, I am aware that IBM and 3 NetSolve had separate scripts that could run. 4 the best of my recollection that they could take the 10:27:55 6 output from that and run it through scripts, which 7 could then be automated as to -- I do not have copies of those scripts. I do not have copies of 8 9 the SQL queries that they ran. 10 I am aware that they liked using the 10:28:13 11 NetRanger system because it's so configureable, they 12 could do things like that. 13 Q. (BY MR. MILLER) Did Mr. Gallen provide you with any -- any information to support your 14 view? 15 10:28:27 Mr. Gallen --16 Α. 17 MS. BROWN: I'll just caution the witness, you need to wait until he finishes the 18 question. 19 20 THE WITNESS: Okay. I'm sorry. 10:28:33 21 Just slow down there. MS. BROWN: 22 Can you reask the question, please? 23 MR. MILLER: Sure. 24 Ο. (BY MR. MILLER) Did Mr. Gallen tell you 25 that NetSolve utilized a system that would 10:28:41

Page 106 automatically take data provided in response to a 1 2 query and perform machine-driven correlation on that 3 data? I do not remember Mr. Gallen telling me 5 that when I talked to him in September. Mr. Gallen 10:29:05 6 was not on -- a technical employee. He was in 7 their -- -- I believe their sales or their biz-dev department at NetSolve. This is based upon my 8 9 recollection from over 10 years ago when NetSolve 10 was using the NetRanger product, so ... 10:29:26 11 Based on your recollection from over 10 12 years ago when NetSolve was using the NetRanger 13 product, do you know of any specific example where 14 NetSolve took the output of a SQL query and had a 15 computer automatically process the data to perform 10:29:46 correlation? 16 17 MS. BROWN: Objection, asked and 18 answered. 19 I cannot remember a specific example. Α. 20 remember people liked our system because they could 10:29:59 do that with it. 21 22 Q. (BY MR. MILLER) Can you remember a 23 specific example of the same data-processing done by IBM? 24 25 I cannot remember a specific example of Α. 10:30:14

		Page 169
1	2	
2	the claimed hierarchical monitor?	
-3	A. That would be the NetRanger Director.	
4	Q. Can NSX sensor correspond to the	
5	hierarchical monitor that's claimed?	12:42:04
6	A. The NSX sensor does not relate to the	
7	hierarchical monitors.	
8	Q. Does NSX sensor report directly to	
9	HP OpenView?	
10	MS. BROWN: Objection, vague as to	12:42:32
11	"directly."	
12	A. NSX sensor is configured to send event	
13	records, alarm records I use the terms	
14	interchangeably to the NetRanger Director to a	
15	piece of software that would take those messages and	12:42:51
16	on that Director platform, insert them into	
17	HP OpenView.	
18	Q. (BY MR. MILLER) So the answer to my	
19	question is: No, NSX sensor does not report	
20	directly to HP OpenView, correct?	12:43:18
21	MS. BROWN: Objection, misstates	
22	testimony. Also, vague.	
23	A. The NSX sensor is sending alarms to the	
24	Director, which is then received by the system	
25	management interface daemon, which puts them into	12:43:33

Page 170 HP OpenView. 1 2 (BY MR. MILLER) Okay. Can NSX sensor 3 send alarms to HP OpenView without going through Director? 4 5 Α. The NSX sensor sends alarms through the 12:43:48 SMI daemon, okay? It does not send it directly into 6 7 HP OpenView. It sends them through that daemon into 8 HP OpenView. Is the daemon in Director? 9 Q. 10 The system management interface is on the 12:44:08 Α. 11 NetRanger Director. 12 So the answer to my question, can NSX 13 sensor send alarms to HP OpenView without going through Director is no, right? 14 15 I'm trying to understand your question 12:44:27 16 where you state, can it send it without going 17 through the Director. 18 Q. If the daemon is part of Director Right. and it has -- the event record has to go through the 19 daemon to get to HP OverView, then the answer to my 20 12:44:40 21 question is no, correct? 22 It has to go through the daemon, but it Α. 23 depends upon what you are defining as a director. 24 If you are talking about the entire computer system 25 with the operating system, the daemon, HP OpenView, 12:44:54

1	the answer is yes, it sends it directly there. If	Page 171
2	you are talking about the HP OpenView software	
3	application by itself, then the answer is it does	
4	not send it directly to that; it sends it to the	
5	Director platform. It all depends upon your	12:45:09
6	definition of what the Director is.	
7	Q. What, in your view, does "automatically"	
8	mean in the context of the claim limitation	
9	"automatically receiving and integrating reports of	
10	suspicious activity by one or more hierarchical	12:45:31
11	monitors"?	
12	A. "Automatically" would mean without user	
13	intervention.	
14	Q. How is "integrating" different from	
15	"correlating," as claimed?	12:45:49
16	A. That is a very good question. And, to be	
17	honest, in times I have used the two terms,	
18	"integrate" and "correlate," similarly in speaking	
19	about NetRanger.	
20	Q. For purposes of your analysis of the	12:46:09
21	validity of the claims of the patents-in-suit, did	
22	you use the terms "integrating" and "correlating"	
23	interchangeably?	
24	MS. BROWN: Objection, vague.	
25	A. I do not remember if I did. I will state	12:46:25

Page 172 1 that on this part here, you know, I have in my report that the NetRanger Director received and 2 3 integrated alarms from a plurality of NSX sensors. 4 (BY MR. MILLER) You're pointing to something when you state "here." What were you 5 12:46:44 6 pointing to? 7 I'm pointing to, on page 12, we have under the column "NetRanger (public use or sale)," 8 9 right there in that box, it says, "The NetRanger Director received and integrated alarms from a 10 12:46:57 11 plurality of NSXs," so they're integrating them. 12 What do you mean by "integrate" in that 13 context? 14 Α. In that context, the NetRanger Director, which would include the SMI daemon, HP OpenView, for 15 16 example, that the alarms would come, you know, from 17 the NSX sensor, through the SMI daemon, into 18 HP OpenView, where it would then create an internal 19 database record inside of HP OpenView that would 20 then be used internally by open view to generate an 12:47:36 21 icon on the screen. 22 If you had another event that was 23 similar to the first one and that similarity may 24 depend upon the different type of event, it may go 25 into the same data structure, it may create a new 12:47:53

Page 173 data structure for yet another icon, or it may just 1 increment the count on the original icon. 2 Q. Which of those various actions do you 3 4 believe constitutes integration, as claimed? 5 MS. BROWN: Objection, vague. 12:48:23 (BY MR. MILLER) I'm sorry. I should 6 Q. 7 have said "integrating, as claimed." MS. BROWN: I'll also object that 8 9 it's compound. (BY MR. MILLER) I'm going to repeat the 10 Ο. 12:48:40 question so it's clean for the record. 11 12 Α. Okay. 13 0. Which of the various actions that you defined a moment ago do you believe constitutes 14 15 integrating as "integrating" is used in the claims 12:48:49 of the patents-in-suit? 16 17 Α. I would state that it would be the 18 example of where the Director received two events that would be displayed and -- stored in the same 19 data structure and displayed on the same icon on the 20 12:49:08 21 screen. 22 Q. That icon that's displayed on the screen that can represent more than one event is called an 23 24 alarm set icon? Turn to page 15, top of the page. 25 Α. Yes. 12:49:48

Page 174 1 Q. It says right there, "By default, if two or more alarms are received that are alike in all 2 3 respects except for timestamp and sequence number, 4 nrdirmap will represent these alarms with a single," 5 quote, "'alarm set,'" unquote, "icon." Do you see 12:50:08 that? 6 7 Α. Yes, I do. That's integration, in your opinion, as 8 9 claimed by the patents-in-suit? 10 Α. For -- yes, I use that definition for 12:50:16 these claims with the integration. You're 11 12 displaying them to the user, so that is my 13 definition that I used. 14 Q. Your answer was not completely clear. 15 This is -- this functionality, the one I just read, 12:50:38 16 do you believe that that is integration, as it is 17 claimed in the patents-in-suit? 18 MS. BROWN: Objection, asked and 19 answered. 20 I would answer yes, because "integration" 12:50:55 21 is a very broad term, and I believe that this would 22 be included under the term of "integration" as I defined it for the claims in this suit. 23 24 0. (BY MR. MILLER) Okay. As you defined it 25 for the claims in this suit, what is the definition 12:51:14

Page 251 data set that would then be provided as an icon. 1 That was WheelGroup Soft Word that did that work. 3 It ran within -- inside of HP OpenView. 4 HP OpenView has an extensible interface for third -- you know, for other 5 14:59:29 applications to plug into. 6 7 Okay. Do you understand what it means to 8 combine references for an obviousness analysis? 9 MS. BROWN: Objection, calls for a 10 legal conclusion. 14:59:39 I do not know what you mean by "combining 11 12 references for obvious analysis." 13 Q. (BY MR. MILLER) Okay. Your attorney's 14 objection makes a good point. Do you plan to provide any legal conclusions to the jury in this 15 15:00:27 16 matter? 17 MS. BROWN: Objection, the document 18 speaks for itself. His opinions are expressed in the document. 19 20 MR. MILLER: I'd like the witness to 15:00:41 21 speak for himself. 22 Q. (BY MR. MILLER) Do you plan to provide 23 any legal conclusions to the jury in this matter? 24 MS. BROWN: Objection, vague as to 25 the phrase "legal conclusions." 15:00:48

		Page 252
1	A. Legal conclusions of what type?	
2	Q. (BY MR. MILLER) Regarding the validity	
3	of the claims of the patents-in-suit.	•
4	A. I would state that the claims, as	
5	mentioned in my expert report, are not valid based	15:01:07
6	upon the NetRanger system, and everything is	
7	documented in the expert report.	
8	Q. And you don't know what an obviousness	
9	analysis is?	
10	MS. BROWN: Objection, lacks	15:01:26
11	foundation. The document speaks for itself. I'll	:
12	just object further, the witness hasn't offered an	
13	obviousness opinion with regards to HP OpenView, so	
14	you're outside the bounds of the expert report,	
15	Counsel.	15:01:41
16	MR. MILLER: You're coaching. You	
17	know it.	
18	A. As right here in the report and,	
19	again, I am not a lawyer it states in the report,	
20	"To establish obviousness under this test, one must	15:01:52
21	show clear and convincing evidence that a person of	
22	ordinary skill in the art at the time of the	
23	invention, confronted by the same problem as the	
24	inventor and with no knowledge of the claimed	
25	invention, would select the recited elements from	15:02:06

1	the prior art and combine them in the claimed	Page 253
	the prior art and combine them in the claimed	
2	manner."	
3	Q. (BY MR. MILLER) Okay. Are you doing	
4	that with NetRanger and HP OpenView? Are you	
5	performing an obviousness analysis as to any claim	15:02:15
6	of the patents-in-suit by combining HP OpenView,	
7	which you say is a third-party product, and	
8	NetRanger?	
9	MS. BROWN: Objection, the document	
10	speaks for itself.	15:02:28
11	A. I would point out in my expert report,	
12	right here, "It would have been obvious to one of	
13	ordinary skill to combine statistical profiling	
14	methods for anomaly detection," and it's described,	
15	"with NetRanger if a commercial grade was	15:02:56
16	available." I don't see where I'm talking about	
17	HP OpenView when I'm stating this here.	
18	Q. (BY MR. MILLER) Okay. So is the answer	
19	to my question yes or no?	
20	MS. BROWN: Objection, asked and	15:03:15
21	answered.	
22	A. I believe I already stated that for	
23	HP OpenView	
24	I do not fully understand what you	
25	mean by "obviousness analysis of the claim in the	15:05:04

Page 254 patents-in-suit by combining HP OpenView, which you 1 2 say is a third-party product, and NetRanger." (BY MR. MILLER) You just don't 3 4 understand the question? 5 I'm trying to understand what you're 15:05:20 trying --6 7 Do you know what "anticipation" is? Q. MS. BROWN: Objection, calls for a 8 9 legal conclusion. I do not know what "anticipation" from a 10 Α. 15:05:31 legal term is. 11 12 (BY MR. MILLER) How did you go about 13 determining whether or not the claims of the 14 patents-in-suit were invalid? 15 I discussed each of the claims with my Α. 15:05:48 16 legal counsel, going through, reading the claim, 17 trying to understand what each term meant, which 18 is -- they were very broad. They could mean any 19 number of different things. 20 It was made aware to me at the time 15:06:07 21 that those terms -- that there was a joint 22 construction statement with a number of those terms The definition of those terms was not, at 23 24 this time -- at the time we were doing it, you know, 25 fully specified as to which definition would be 15:06:21

1	used.	Page 255
2	So going through and looking at the	
3	NetRanger system that I had, which looked awfully	
4	similar, upon first cursory review of the patent,	
5	it's like, this is my NetRanger system, with the	15:06:44
6	exception that, you know, they're talking about	
7	statistical analysis, which NetRanger did not do.	
8	Q. Did you were you told that there's a	
9	restriction or requirement that everything be taught	
10	by one reference, all aspects of the claim be taught	15:07:04
11	by a single reference to do anticipation?	
12	MS. BROWN: Objection, lacks	
13	foundation.	
14	Q. (BY MR. MILLER) Were you told that?	
15	A. I do not remember being told that.	15:07:17
16	Q. Did you apply that test for anticipation,	
17	that all of the elements claimed by each claim	
18	needed to be in one single reference?	į
19	MS. BROWN: Objection, vague as to	
20	"reference." Are you speaking to a document or to	15:07:30
21	the product?	
22	MR. MILLER: Renee, you're coaching	
23	the witness. We all know what we're talking about.	
24	MS. BROWN: He does not know what	
25	you mean by "reference," and I'm telling you the	15:07:42

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Page 256
     term is vague.
 1
 2
                     MR. MILLER: You just -- and there
 3
     is a precise objection that you can state.
 4
                     MS. BROWN:
                                  The term "reference" is
 5
     vague --
                                                            15:07:43
 6
                     MR. MILLER: Thank you. You've
 7
     stated your objection.
 8
                     MS. BROWN: -- and I'm asking you to
 9
     clarify it.
10
                (BY MR. MILLER) Sir, do you understand
                                                            15:07:48
11
     the question or not?
12
                My understanding, when I looked at the
13
     claims, there was the supporting documentation, you
14
     know, in the patent. You know, the claims are the
15
     last piece on the end. Look at that, I didn't just 15:08:16
16
     look at the claims by themselves.
17
                     We had lengthy discussions over the
     claims, some of the information -- you know, the
18
19
     information that was in the patent. We may have
20
     discussed other references that were included and
                                                            15:08:34
21
     referenced by the patents. I don't remember which,
22
     what those references are.
23
                To determine whether any of the claims
          Q.
24
     were invalid, did you compare the claims to the
25
     prior art?
                                                            15:08:55
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4	MG DDOIDI. Obiombios	Page 257
1	MS. BROWN: Objection, vague.	
2	A. I compared the claims primarily to the	
3	NetRanger system.	
4	Q. (BY MR. MILLER) When you say you	
5	compared the claims to the NetRanger system, what,	15:09:13
6	precisely, did you compare the claims to? I want to	
7	know exactly what you mean by "NetRanger system."	
8	A. I compared the claims to all of my	
9	knowledge, to NetRanger, being the original author,	
10	architect, original coder of the NetRanger system,	15:09:43
11	being a founder of WheelGroup, going through the	
12	user's manuals, refreshing my memory, going through	
13	all the documentation that we've discussed here	
14	today; and going through that, to me, it was	
15	apparent there were the when I reached those	15:10:04
16	conclusions, that's why I said NetRanger was already	
17	doing what I stated NetRanger was already doing.	
18	Q. Based on your knowledge of the product as	
19	a coder of the product, correct?	
20	A. Correct, based upon my knowledge as the	15:10:22
21	inventor of the system, of the NetRanger system	
22	Q. Based on all of the documents taken	
23	together?	
24	A. Based on all of the documents taken	
25	together.	15:10:37

1	Q. Okay.	Page 258
2		
	A. You know, that also includes my memories	
3	of customers using the system.	
4	Q. I see. So undocumented memories of	
5	customer applications of NetRanger, that was	15:10:58
6	included as well?	
7	MS. BROWN: Objection, calls for	
8	speculation.	
9	Q. (BY MR. MILLER) You included	
10	undocumented recollections of NetRanger deployments	15:11:05
11	by NetRanger customers in your invalidity analysis?	
12	MS. BROWN: Objection, calls for	
13	speculation. The document speaks for itself, if	
14	you'd care to point him to anything that you are	
15	alleging is in the expert report.	15:11:23
16	A. For the undocumented memories that we	
17	were discussing goes back to those SQL queries,	
18	which we have already discussed.	
19	Q. (BY MR. MILLER) Okay. If you could turn	
20	to Exhibit D of your report, and if you could turn	15:11:41
21	to page 74986 of Exhibit 464 as well. My question,	
22	sir, is this: Is there a difference between	
23	Figure 1.6 in Exhibit 464 and the first page of your	
24	Exhibit D?	
25	MS. BROWN: Objection, the document	15:12:35

Page 259 1 speaks for itself. 2 Are you asking me if this is the exact 3 same image both in the user's manual and on this 4 architecture? 5 0. (BY MR. MILLER) Yeah. Is there a 15:12:49 6 difference between the two? 7 You know, the pictures look the same. 8 Ο. Okay. Where is the next page of 9 Exhibit D to your report found in the 1.3.1 manual? 10 MS. BROWN: Objection, lacks 15:13:13 foundation. 11 12 (BY MR. MILLER) You wouldn't dispute my 13 representation that it is not in the manual, would 14 you? 15 No, if you do not find it in the manual. Α. 15:13:27 16 Q. You state that one Director could report up to a higher Director, higher-tier Director, at 17 page 38 of your report? 18 19 Α. Yes, that is true. 20 Is what's described here at the top of 15:13:49 21 74986, which refers to Figure 1.6 -- is it 22 incorrect? It says, "In addition to providing 23 performance benefits and fault tolerance, 24 distribution hierarchies can simplify system 25 management. For example, local Director machines 15:14:09

		Page 280
1	Q. (BY MR. MILLER) Then you go on	,
2	MS. BROWN: Mr. Teal was in the	
3	middle of a sentence, and he's entitled to finish	
4	his sentence, if he wishes to.	
5	Q. (BY MR. MILLER) Then you go on to say	15:49:50
6	that commercial-grade anomaly detection software did	
7	not exist in 1997, right?	
8	A. I had not seen, or was aware of, any	
9	commercial-grade software, based upon the	
10	definition that is I had not seen any commercial	15:50:09
11	customers of ours using it. To my knowledge, none	
12	of our sales forces encountered any product using	
13	statistical anomaly detection.	
14	The only products in 1997 that we	
15	encountered, to my recollection, is the ISS	15:50:22
16	RealSecure product.	
17	Q. I'm not trying to trick you, sir. You	
18	say it would be obvious to combine NetRanger with	
19	statistical anomaly detection if commercial	
20	statistical anomaly detection existed, right?	15:50:38
21	A. That's what I'm stating.	
22	Q. And you say commercial-grade statistical	
23	anomaly detection software didn't exist in 1997,	
24	right?	
25	A. Yes, that's what I state.	15:50:49

Page 281 1 Q. So if commercial-grade statistical anomaly detection software did not exist in 1997, 2 then the combination of statistical anomaly 3 4 detection software and NetRanger would not have been obvious in 1997. Is that a fair conclusion to draw? 5 15:51:04 MS. BROWN: Objection, lacks 6 foundation. 7 8 Α. I specifically said commercial-grade software. 9 10 (BY MR. MILLER) Ο. Yeah. 15:51:17 11 Α. It's a different answer if you are 12 building a research system, mainly because, based 13 upon my experience, people building research systems, the more engines, analysis engines and so 14 forth you had, the better Ph.D. thesis it would 15 15:51:32 16 appear, the better papers you could present. 17 I was interested in building a 18 commercial-grade product and not a research-type 19 product. 20 That does not answer my question, so let 15:51:51 21 me try again. You said it would be obvious to 22 combine NetRanger and statistical anomaly detection, but only if a commercial-grade version of 23 24 statistical anomaly detection software existed, 25 right? 15:52:08

1	MS. BROWN: Objection	Page 282
2	Q. (BY MR. MILLER) That's what you say in	
3	paragraph 60.	
4	A. Yes, that is what I state. I state right	
5	here that we would combine it if commercial-grade	15:52:15
6	software implementing such anomaly detection had	
7	existed in 1997.	
8	Q. Okay. Then you go down to paragraph 61	
9	and you say commercial-grade statistical anomaly	
10	detection software didn't exist, right, in 1997?	15:52:29
11	A. Yes, I state right here in my report that	
12	I do not believe that commercial-grade system for	
13	statistical anomaly detection existed in 1997 that	
14	was suitable for inclusion in NetRanger.	
15	Q. So isn't the condition that you establish	15:52:50
16	in paragraph 60 not satisfied; in essence, the	
17	combination of NetRanger and statistical anomaly	
18	detection would not be obvious?	i
19	MS. BROWN: Objection, lacks	
20	foundation.	15:53:06
21	A. In there, I was referring to the	
22	existence that NetRanger is a commercial-grade	
23	system. I did not in fact, I tried to use	
24	another engine in the early development phases of	
25	NetRanger. It didn't work well. It didn't meet	15:53:35

7	what I monded for a manuscript and a monder to	Page 283
1	what I needed for a commercial-grade product, so,	
2	therefore, I did not use it. I was if there had	
3	been a commercial-grade statistical anomaly	
4	detection system, I may have included it in	
5	NetRanger in 1997.	15:54:02
6	Q. (BY MR. MILLER) Okay. But, sir, you're	
7	not answering my question. You set up a condition	
8	for obviousness in paragraph 60. Isn't that true?	
9	MS. BROWN: Objection, lacks	
10	foundation.	15:54:16
11	Q. (BY MR. MILLER) You see what you say	
12	there?	
13	A. Basically, I'm stating that if you're	
14	building a commercial-grade system I mean	
15	Q. You say, it would have been obvious to	15:54:37
16	one of ordinary skill at the time to combine a	
17	statistical profiling method for anomaly detection	
18	such as those described in statistical methods in	
19	EMERALD 1997 with the NetRanger system, if, "if"	
20	commercial-grade software implementing such an	15:55:00
21	anomaly detection system had existed in 1997.	
22	That's what you say in your report. Is that true or	
23	not?	
24	A. That is correct. That is what I state in	
25	my report.	15:55:11

Page 284 1 Ο. You go on to say that that 2 commercial-grade software did not exist. You say that in paragraph 61, right? 3 That is correct. 4 5 So, then, there's no way on earth that it 15:55:19 Q. would be obvious to combine the two, based on what 6 7 you say in paragraph 60. 8 Objection, lacks MS. BROWN: 9 foundation, misstates the expert report, 10 paragraph 61 in particular. 15:55:34 11 (BY MR. MILLER) Go ahead and explain it Ο. 12 to me, sir. 13 Α. In 61, I state, the first sentence, which 14 is, "However, the needs of a commercial system such as NetRanger were very different than a research 15 15:55:45 16 In particular, when performing real-time 17 network intrusion detection" --18 Ο. You've got to go slower for her. 19 Α. Okay. 20 -- "it was of paramount importance 15:56:03 21 that the software analyzing the network traffic run 22 quickly in order to be able to keep up with the 23 incoming stream of network packets." 24 Q. You can go faster. 25 Α. "WheelGroup actually investigated adding 15:56:22

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1	wanted it to.	
2	THE VIDEOGRAPHER: We've got five	
3	minutes left on the tape.	
4	Q. (BY MR. MILLER) Did you ever try to	
5	improve upon Mr. Smaha's software?	16:05:46
6	A. Do you define as improving his software	
7	in particular, or writing my own signatures to do	
8	what his did?	
9	Q. I thought that you had characterized his	
10	software as anomaly detection. Did you ever try to	16:06:07
11	write your own commercially viable and sound	
12	statistical anomaly detection engine?	
13	A. I did not. As I previously stated, I	
14	found that I could detect all the signatures that I	
15	needed with signature analysis.	16:06:26
16	Q. Isn't the shortcoming of signature-based	
17	analysis that a person intent on misuse can simply	
18	design an attack that there is no signature for?	
19	MS. BROWN: Objection, calls for	İ
20	speculation, incomplete hypothetical.	16:06:44
21	A. That is correct. If you have an attack	,
22	where there is no signature in the engine, just like	
23	antivirus engines, that is one of the shortcomings	1
24	of a signature misuse engine.	
25	Q. (BY MR. MILLER) And that's one of the	16:07:02

Page 291 alleged strengths of a statistical anomaly detection 1 engine, is that it can detect attacks that have 2 3 never been seen before. 4 I would state that it might be able to detect attacks that have never been seen before. 5 16:07:15 The fundamental problem that I had seen in using 6 7 statistical detection methods is, of course, training, you establish profiles. If the attacker 8 9 is already in the network, he becomes part of the 10 profile. Trying to get your operators at your 16:07:37 11 commercial companies to be able to configure and 12 train the system properly for their environment had a lot of shortcomings. It was hard to do. 13 14 Ο. If it could be done, would it have -- if 15 an appropriate statistical anomaly detection engine 16:08:01 16 could have been created, would it have improved 17 NetRanger? 18 MS. BROWN: Objection, calls for 19 speculation, incomplete hypothetical. 20 If you could have built a commercially 16:08:19 21 reliable straight anomaly detection engine, it would 22 have improved NetRanger. As I stated before, I do 23 not believe -- I was not aware of any such thing 24 that existed that could be included to NetRanger in 25 1997. 16:08:42

1	O (DV MD MITTED) and condidant attached	Page 292
	Q. (BY MR. MILLER) And you didn't attempt	
2	to design and build your own statistical anomaly	
3	detection engine that would meet all the	
4	requirements that you've laid out that would be	
5	commercially viable commercial-grade, I'm	16:08:54
6	sorry even though it would improve NetRanger?	
7	A. I did not take the time. Again, as I	
8	just previously stated, it is very hard to design a	
9	commercial-grade statistical anomaly detection	
10	engine that could be used, you know, by companies on	16:09:16
11	a regular basis.	
12	THE VIDEOGRAPHER: I need to change	
13	tapes. We're off the record at 4:09 p.m. This is	
14	the end of Tape No. 6.	
15	(Recess taken at 4:09 p.m.)	16:09:33
16	THE VIDEOGRAPHER: Stand by, please.	
17	We're back on the record at 4:11 p.m. This is the	
18	beginning of Tape No. 7.	
19	Q. (BY MR. MILLER) Mr. Teal, what test did	
20	you apply in determining or in reaching your	16:11:24
21	conclusion that it would be obvious to combine the	
22	teachings of Statistical Methods and EMERALD '97	
23	with NetRanger to render obvious the claims of the	
24	'212 patent?	
25	A. I would refer you to my report,	16:11:56

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1	paragraph 56, where I state, "I understand that one	i uge 255
2	must show by clear and convincing evidence that a	
3	person of ordinary skill in the art at the time of	
4	invention, confronted by the same problem as the	
5	inventor and with no knowledge of the claimed	16:12:24
6	invention, would select the recited elements from	
7	the prior art and combine them in the claimed	
8	manner."	
9	Q. What is your suggestion for a motivation	
10	to combine those references?	16:12:44
11	A. You know, I state, "In other words, one	
12	must avoid the use of hindsight and instead identify	
13	in the art prior to the invention some suggestion or	
14	motivation, before the invention itself was made, to	
15	make the new combination," and I'll refer you to	16:13:24
16	paragraph 61 where, while designing NetRanger I	
17	attempted to put in another engine, and it didn't	
18	work. And, at that time, I was not aware of these	
19	patents.	
20	I was aware of prior art regarding	16:13:47
21	different statistical anomaly detection engines,	
22	signature analysis engines, and that is why, when I	
23	was designing NetRanger, where I attempted to	ľ
24	combine the two engines in one product.	ŕ
25	Q. Where is the suggestion or motivation to	16:14:09
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Page 294 1 combine NetRanger with EMERALD or statistical analysis, the NIDES paper, in any document relating 2 3 to NetRanger? 4 MS. BROWN: Objection, calls for a 5 legal conclusion. 16:14:26 6 On there, I chose NetStalker from Α. 7 Haystack Labs for my initial attempt to combine 8 It was an engine. We knew Steve Smaha. As I 9 previously stated, I did not know the individuals at 10 SRI very well. Maybe if I had known them, I might 16:14:50 have contacted them. 11 I do not know. 12 (BY MR. MILLER) My question was: 13 is the suggestion or motivation to combine NetRanger 14 with the EMERALD 1997 paper or the NIDES paper 15 provided in any of the NetRanger documentation? 16:15:09 16 I am implying that since I attempted to 17 include one engine, it could just as well have been 18 the EMERALD or the NIDES engine that I had tried to 19 produce. 20 But I'm asking you where in any of the 16:15:28 NetRanger papers it provides any suggestion or 21 22 motivation to combine NetRanger with the SRI 23 statistical engine. 24 MS. BROWN: Objection, if you'd like 25 to point him to some place in his expert report 16:15:42

Page 295 where you're claiming he stated this, it's outside 1 the scope of his expert report. It's not in here. 2 3 (BY MR. MILLER) I'll point you to the paragraph that you read to me, paragraph 56. "In 4 5 other words, one must avoid the use of hindsight and 16:15:59 6 instead identify in the art prior to the invention 7 some suggestion or motivation, before the invention 8 itself was made, to make the new combination." 9 MS. BROWN: That statement --10 0. (BY MR. MILLER) So please provide me 16:16:15 11 with the suggestion or motivation found in NetRanger 12 to combine it with the SRI work. 13 MS. BROWN: Counsel, as you've just 14 pointed out, paragraph 56 doesn't refer to 15 NetRanger. It refers to the prior art. 16:16:28 16 MR. MILLER: Your objection is noted. Okay. Your objection is noted. 17 18 Α. You know, in there, I am not stating with 19 regards to NetRanger in paragraph 56. I state in 20 paragraph 61 that I attempted to integrate the 16:16:50 21 statistical analysis engine in NetRanger --22 (BY MR. MILLER) Q. 23 -- and did not do so. Α. 24 Q. I'm sorry. 25 Other than your purported attempt to 16:17:02